

Transcribed copy of Attachment B to the Declaration of  
Gerald Gontarz under 37 C.F.R. §1.131

Li Medical Spinal Nucleus

Date

Will now make "melt extrudable" type aquacryl in order to make a spinal nucleus that has a shape memory. Using 89 % w.c. aquacryl as a base will cast long strips, coagulate, then wash in saline. These will be equilibrated in 10% NaSCN, then concentrated as follows:

AQUACRYL COMPOSITION:				Part. coefficient r		
Date	Initial water content	89.00%		Swelling solution		NaSCN
	at NaCl concentration	0.9%		NaSCN	conc	10.0%
			NaSCN	water		
	Weight	Polymer w	w2	weight	weight	
Initial state:	342.80	37.89	0.1100			
Swollen state:	263.81	37.89	0.1429	22.6124	241.0547	
		Liquid wt.	Target wt.	Pol. conc:		
Target concentration	45.0%	50.24978	87.94	42.9%	71.2	11.74
	50.0%	45.2248	82.91	45.5%		
	55.0 %	41.11345	78.80	47.8%		
	60.0%	37.68733	75.37	50.0%		
	Will evaporate	175.87	g of water			
	By adding	606.4826	g of silica			

I will shape these into spirals and heat to 100°C for 15 minutes in order to instill a shape. This will be washed and plasticized as normal procedures. Samples saved as JG-9-107-A.

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[REDACTED]

Sampled saved as JG-9-107-A